

**SURFACE SAND FILTER  
COST ESTIMATE WORKSHEET  
2005 Prices**

Project Title \_\_\_\_\_

Owner \_\_\_\_\_

Location \_\_\_\_\_

Project Number \_\_\_\_\_

Date \_\_\_\_\_

Description	Units	Quantity	Unit Cost	Total Estimated Price
<b>Site Preparation</b>				
Tree removal - up to 12" diameter	each	-----	\$350.00	\$0.00
Clear and grub brush	square yard	-----	\$1.50	\$0.00
Tree protection - temp. fence	lineal foot	-----	\$3.00	\$0.00
Topsoil - 6" depth, salvage on site	square yard	-----	\$4.50	\$0.00
<b>Site Formation</b>				
Excavation - 6' depth	square yard	-----	\$8.00	\$0.00
Grading	square yard	-----	\$1.50	\$0.00
Hauling off-site - 6' depth	square yard	-----	\$10.00	\$0.00
<b>Structural Components</b>				
Underdrain - with pea gravel and geotextile	square yard	-----	\$400.00	\$0.00
Inlet structure	each	-----	\$1,500.00	\$0.00
Sand filter media - 18" depth	square yard	-----	\$15.00	\$0.00
Outlet structure	each	-----	\$3,000.00	\$0.00
<b>Site Restoration</b>				
Sod filter strip	lineal foot	-----	\$1.50	\$0.00
Soil preparation	square yard	-----	\$5.00	\$0.00
Seeding	square yard	-----	\$0.50	\$0.00
Subtotal				\$0.00
10% Contingencies				\$0.00
Subtotal				\$0.00
Apply MN Location Factor				
<b>TOTAL CONSTRUCTION COST</b>				<b>\$0.00</b>

<b>Annual Operation and Maintenance</b>				
Debris removal	per visit	-----	\$50.00	\$0.00
Mowing	per visit	-----	\$150.00	\$0.00
Sediment removal	per year	-----	\$500.00	\$0.00
Gate / valve operation	per visit	-----	\$125.00	\$0.00
Erosion repair	square yard	-----	\$75.00	\$0.00
Inspection	per visit	-----	\$125.00	\$0.00
Subtotal				\$0.00
Apply MN Location Factor				
<b>TOTAL ANNUAL O&amp;M COST</b>				<b>\$0.00</b>

<b>Minnesota Location Factors</b>	
Bemidji	0.963
Brainerd	1.003
Detroit Lakes	0.962
Duluth	0.991
Mankato	0.990
Minneapolis	1.035
Rochester	0.983
St. Paul	1.000
St. Cloud	1.002
Thief River Falls	1.042
Willmar	0.961
Windom	0.935

Note: Suggested unit costs are based on RSMeans prices for Spring, 2005, then factored into an area basis based on typical design features for Media Filtration BMPs. To be used for preliminary cost estimation.